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### [1. a: Management Tools for Network Operators](#)

Release Date: 08-12-2013 Open Date: 08-12-2013 Due Date: 10-15-2013 Close Date: 10-15-2013

Network infrastructure must be actively managed to ensure that the infrastructure itself does not become a performance bottleneck. This management requires an understanding of how traffic is currently flowing, making predictions about how traffic flows will change in the future, and, increasingly, how much energy this infrastructure is using. Network operations staff need tools and services to m ...

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### [2. b: Optical Network Support Services](#)

Release Date: 08-12-2013 Open Date: 08-12-2013 Due Date: 10-15-2013 Close Date: 10-15-2013

Optical networks have revolutionized wide-area network infrastructure deployments, providing ever-increasing amounts of bandwidth at ever-decreasing costs. As costs have dropped, optical network components moved out of the wide area and into the metro area, and now the residential distribution environment. This expansion requires a shift away from small numbers of very expensive optical test gea ...

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### [3. c: Big Data-Aware Middleware and Networking](#)

Release Date: 08-12-2013 Open Date: 08-12-2013 Due Date: 10-15-2013 Close Date: 10-15-2013

The growing ubiquity, volume, and velocity of data is having a transformative impact on many sectors of modern society including, energy, science, and defense. DOE operates a broad assortment of scientific facilities such as light sources, observatories, and supercomputing facilities that generate vast amounts of data. Over the years DOE has invested in the development of tools, services, visual ...

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#### **4. [d: Other](#)**

Release Date: 08-12-2013 Open Date: 08-12-2013 Due Date: 10-15-2013 Close Date: 10-15-2013

In addition to the specific subtopics listed above, the Department invites grant applications in other areas that fall within the scope of the topic description above.

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#### **5. [e: TECHNOLOGY TRANSFER OPPORTUNITIES: Office of Advanced Scientific Computing Research](#)**

Release Date: 08-12-2013 Open Date: 08-12-2013 Due Date: 10-15-2013 Close Date: 10-15-2013

Good security metrics are required to make good decisions about how to design security countermeasures, to choose between alternative security architectures, and to improve security during operations. Therefore, in essence, cyber security measurements can be viewed as a decision aid. The lack of sound and practical security metrics is severely hampering progress in the development of secure system ...

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#### **6. [13.2-FH1: Development of Innovative Welding for High Performance Bridge Steel](#)**

Release Date: 07-25-2013 Open Date: 07-25-2013 Due Date: 09-23-2013 Close Date: 09-23-2013

Steel bridge fabrication has changed little since the 1950s when welding steel began to dominate over riveting. The recent 20 years has seen two innovations in steel bridge fabrication. One has been the advent of high performance steels (HPS) in the mid-1990s that provided higher yield strengths, higher fracture toughness, and most importantly, an increased weldability over conventiona ...

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#### **7. [13.2-FM1: Affiliation Strength/Risk Model Development for Motor Carrier Succession](#)**

Release Date: 07-25-2013 Open Date: 07-25-2013 Due Date: 09-23-2013 Close Date: 09-23-2013

The Federal Motor Carrier Safety Administration (FMCSA) is responsible for regulating the safety of interstate truck and bus travel in the United States. The primary mission of FMCSA is to reduce crashes, injuries and fatalities involving large trucks and buses. FMCSA's strategic framework is built upon three core principles: Raise the bar to enter the industry; Require operators to ...

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**8. [13.2-FH2: Game-based technology and Database to Train Pre-Drivers, Young Drivers, and Older Drivers to Detect Traffic Hazards and Respond Appropriately](#)**

Release Date: 07-25-2013 Open Date: 07-25-2013 Due Date: 09-23-2013 Close Date: 09-23-2013

Motor vehicle crashes killed an average of 40,398 people in the U.S. each year from 2000 through 2010, despite declines to 37,423 in 2008, 33,808 in 2009, and 32,885 in 2010 during harsh economic conditions from which the country is slowly recovering (National Highway Traffic Safety Administration, 2012). As a cause of death in the U.S. in 2009, traffic crashes ranked first among both 5-14 an ...

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**9. [13.2-PH1: Pipeline Integrity Assessment Using In-Line Inspection](#)**

Release Date: 07-25-2013 Open Date: 07-25-2013 Due Date: 09-23-2013 Close Date: 09-23-2013

There is a current need better pipeline inspection technology to enable improved inspection of both oil and gas pipelines for internal corrosion, external corrosion, mechanical damage, and longitudinal and transverse cracks. A new and evolving interest across the industry is for an inspection technology that can measure longitudinal strain. This Small Business Innovation Research (SBIR) topi ...

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**10. [13.2-PH2: Modeling cathodic protection penetration on new construction pipelines incorporating all types of "foam" sack breakers and supports](#)**

Release Date: 07-25-2013 Open Date: 07-25-2013 Due Date: 09-23-2013 Close Date: 09-23-2013

When a pipeline is constructed a ditch is dug to applicable depths based on federal regulation and is prepared for the pipeline that will be laid within the construction ditch. When the pipeline is placed in the ditch it requires support and padding to protect the coating and align it to the topography of the ditch in preparation for back fill. There are many types of material that can be used to ...

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